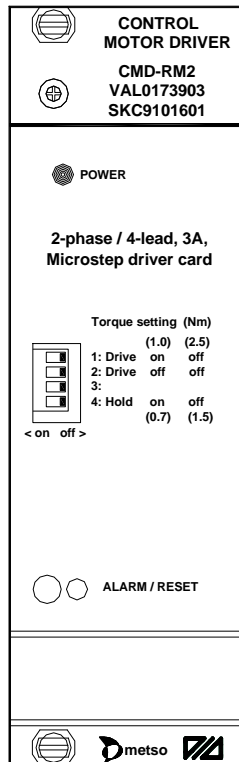




CMD – RM2

VAL0173903 / SKC9101601



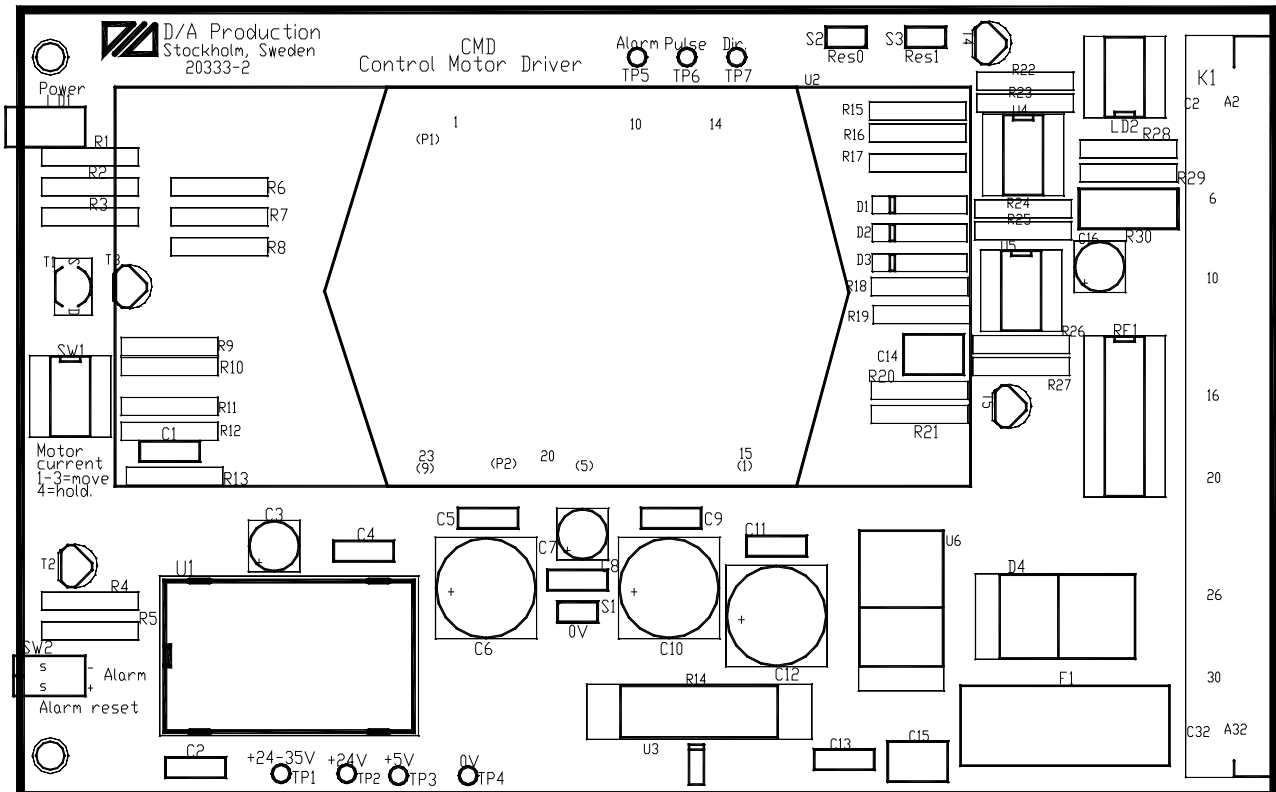
CONTROL MOTOR DRIVER FOR THE RMS/CMS SYSTEM USERS MANUAL



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1. LOCATION OF COMPONENTS



2. DESCRIPTION OF OPERATION

The CMD-RM1 Control Motor Drivers is used in combination with the Control Motor Interface board (CMI-RM1 or CMI-01), CMI-RM1 in the RMS-system and in the CMS-system CMI-01, to drive a 2-phase stepping motor.

CMD-RM2 generates drive currents to the motor from the clock pulses generated in the CMI-card.

The units shall be used together with a 2-phase stepping motor.

The CMD-RM2 will replace the CMD-RM1 as the standard drive unit from late 2004. CMD-RM2 demands that the CMI-card (CMI-RM1 or CMI-01) uses software 4.2 or later.

Press the Alarm reset button if the led indicating alarm lits. If it still alarms, check the cables and stepping motor for cable break or short circuit.

3. TECHNICAL SPECIFICATION

Article no:	CMD-RM2 / VAL0173903 / SKC9101601
Power supply :	24-30Vdc \pm 10%
Current consumption:	2.5 A, max
Board dimension:	Length: 160 mm Width: 100 mm Height: 40 mm (8 TE)
Panel adjustment:	Phase current, hold current
Panel switch:	Alarm reset (replaces the CMA-RM1 unit if mounted)
Panel output indicators:	Power supply (green LED) Alarm for short circuit or cable cut (red LED)
Digital input:	Clock pulses Direction
Relay output:	1-pole toggling
RMS-unit interface:	No

4. SETTINGS

Set the dip-switches in the front to get the right function (“off” = switch to the right)

<i>Function</i>	<i>Drive current (Torque)</i>	<i>Hold current (Torque)</i>
Default setting Normal, all switches to the right.		
4.1 1=off 2=off 3=off 4=off	1.8A (2.5 Nm)	0.4A (1.5 Nm)
Test setting Lowest drive current, used during testing		
4.2 1=on 2=off 3=off 4=on	0.3 A (1.0 Nm)	0.1 A (0.7 Nm)
Other settings		
4.3 1=off 2=on 3=off 4=off	3.5 A (3.0 Nm)	0.5 A (1.9 Nm)
4.4 1=off 2=on 3=off 4=on	3.5 A (3.0 Nm)	0.3 A (1.0 Nm)
4.5 1=off 2=off 3=off 4=on	1.8 A (2.5 Nm)	0.3 A (1.0 Nm)
4.6 1=on 2=on 3=off 4=off	0.4 A (1.5 Nm)	0.2 A (0.8 Nm)
4.7 1=on 2=on 3=off 4=on	0.4 A (1.5 Nm)	0.1 A (0.7 Nm)
4.8 1=on 2=off 3=off 4=off	0.3 A (1.0 Nm)	0.2 A (0.8 Nm)

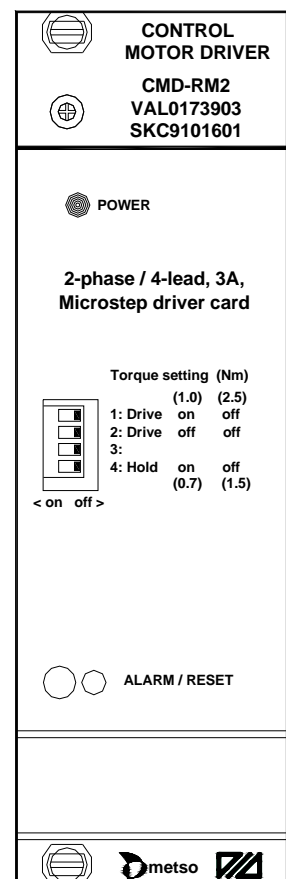
Switch no. 3 is not used.

5. CONTACT

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